Dell™ U2412M Monitor User's Guide

About Your Monitor

Setting Up the Monitor

Operating the Monitor

Troubleshooting

Appendix

Notes, Notices, and Cautions

- NOTE: A NOTE indicates important information that helps you make better use of your computer.
- CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

M WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Model U2412Mb

July 2011 Rev. A00

About Your Monitor

Dell™ U2412M Monitor User's Guide

- Package Contents
- Product Features
- Identifying Parts and Controls
- Monitor Specifications
- Plug and Play Capability
- Universal Serial Bus (USB) Interface
- LCD Monitor Quality and Pixel Policy
- Maintenance Guidelines

Package Contents

Your monitor ships with the components shown below. Ensure that you have received all the components and contact Dell if something is missing.

NOTE: Some items may be optional and may not ship with your monitor. Some features or media may not be available in certain countries.

NOTE: To set up with any other stand, please refer to the respective stand setup guide for setup instructions.



	USB upstream cable (enables the USB ports on the monitor)
<section-header><section-header><text><text><text><text><text><text><text></text></text></text></text></text></text></text></section-header></section-header>	 Drivers and Documentation media Quick Setup Guide Product and Safety Information Guide

Product Features

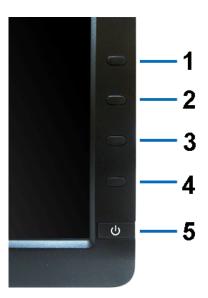
The U2412M flat panel display has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD). The monitor features include:

- 60.96 cm (24-inch) viewable area display (measured diagonally). 1920 x 1200 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or while moving from side-to-side.
- Tilt, swivel, vertical extension and rotate adjustment capability.
- Removable stand and Video Electronics Standards Association (VESATM) 100 mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation media includes an information file (INF), Image Color Matching File (ICM), PowerNap software application and product documentation.
- Energy Saver feature for Energy Star compliance.
- Security lock slot.
- Stand lock.
- Asset Management Capability.
- Capability to switch from wide aspect to standard aspect ratio while maintaining the image quality.
- EPEAT Gold Rating.
- Halogen Reduced.
- TCO Certified Displays.
- PowerNap Software included (comes in the CD shipped with the monitor).

Identifying Parts and Controls

Front View



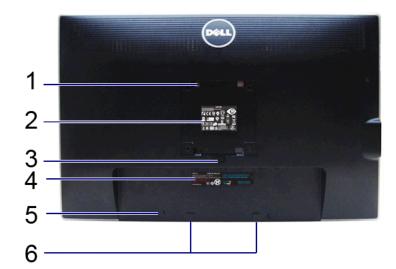


Front panel controls

Front view

Label	Description	
1	Preset Modes (default, but configurable)	
2	Brightness & Contrast (default, but configurable)	
3	Menu	
4	4 Exit	
5	Power (with power light indicator)	

Back View





Back view

Back view with monitor stand

Label	Description	Use	
1	VESA mounting holes (100 mm x 100 mm - behind attached VESA Plate)	Wall mount monitor using VESA-compatible wall mount kit (100 mm x 100 mm)	
2	Regulatory label	Lists the regulatory approvals	
3	Stand release button	Release stand from monitor	
4	Barcode serial number label	Refer to this label if you need to contact Dell for technical support	
5	Security lock slot	Secures monitor with security cable lock	
6	Dell Soundbar mounting brackets	Attaches the optional Dell Soundbar	
7	USB downstream ports	Connect your USB devices	
8	Cable management slot	Use to organize cables by placing them through the slot	

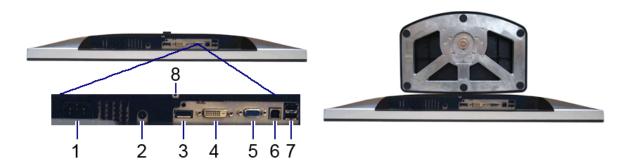
Side View



Left view

Right view

Bottom View



Bottom view

Bottom view with monitor stand

Label	Description	Use	
1	AC power cord connector	Connect the power cable	
2	DC power connector for Dell Soundbar	Connect the power cord for the soundbar (optional)	
3	DisplayPort connector	Connect your computer DP cable	
4	DVI connector	Connect your computer DVI cable	
5	VGA connector	Connect your computer VGA cable	
6	USB upstream port	Connect the USB cable that came with your monitor to the monitor and the computer. Once this cable is connected, you can use the USB connectors on the side and bottom of the monitor	
7	USB downstream ports	Connect your USB devices. You can only use this connector after you have connected the USB cable to the computer and USB upstream connector on the monitor	
8	Stand lock feature	To lock the stand to the monitor using M3 x 6 mm screw (screw is not provided)	

Monitor Specifications

Flat Panel Specifications

Model	U2412M	
Screen type	Active matrix - TFT LCD	
Panel type	IPS	
Screen dimensions	60.96 cm (24-inches viewable image size)	
Preset display area	518.4 (H) X 324.0 (V) mm	
Horizontal	518.4 mm (20.3 inches)	
Vertical	324.0 mm (12.7 inches)	
Pixel pitch	0.27 mm	
Viewing angle	178° (vertical) typical	
	178° (horizontal) typical	
Luminance output	300 cd/m ² (typical)	
Contrast ratio	1000 to 1 (typical), 2M to 1 (typical Dynamic Contrast On)	
Faceplate coating	Antiglare with hard-coating 3H	
Backlight	LED edgelight system	
Response time	8 ms gray-to-gray (typical)	
Color depth	16.7 million colors	
Color gamut	82%*	

*[U2412M] color gamut (typical) is based on CIE1976 (82%) and CIE1931 (72%) test standards.

Resolution Specifications

Model	U2412M
Horizontal scan range	30 kHz to 83 kHz (automatic)
Vertical scan range	50 Hz to 61 Hz (automatic)
Maximum preset resolution	1920 x 1200 at 60 Hz

Supported Video Modes

Model	U2412M
Video display capabilities (DVI & DP playback)	480p, 576p, 720p, 1080p, 576i, 1080i

Preset Display Modes

U2412M

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
VESA, 720 x 400	31.5	70.0	28.3	-/+
VESA, 640 x 480	31.5	59.9	25.2	-/-
VESA, 800 x 600	37.9	60.3	40.0	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1280 x 1024	64.0	60.0	108.0	+/+
VESA, 1600 x 1200	75.0	60.0	162.0	+/+
VESA, 1680 x 1050	64.7	59.9	119.0	+/-
VESA, 1920 x 1080	66.6	59.9	138.5	+/-
VESA, 1920 x 1200	74.0	60.0	154.0	-/+

Electrical Specifications

Model	U2412M
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Video input signals	Analog RGB, 0.7 Volts +/- 5%, positive polarity at 75 ohm input impedance Digital DVI-D TMDS, 600mV for each differential line, positive polarity at 50 ohm input impedance DP 1.1a signal input support	
Synchronization input signals	TTL levels required and separate syncs (including Trigger points), SOG (Composite SYNC on green)	
AC input voltage/frequency/current	100 to 240 VAC / 50 or 60 Hz ± 3 Hz / 1.2 A (typical)	
Inrush current	120 V : 30 A (Max) 240 V : 60 A (Max)	

Physical Characteristics

Model	U2412M		
Connector type	15-pin D-subminiature, blue connector; DVI-D, white connector; DP, black connector.		
Signal cable type	Digital: detachable, DVI-D, solid pins, shipped detached from the monitor		
	Analog: attachable, D-Sub, 15pins, shipped detached from the monitor		
Dimensions (with stand)			
Height (extended)	513.5 mm (20.22 inches)		
Height (compressed)	398.5 mm (15.69 inches)		
Width	556.0 mm (21.89 inches)		
Depth	180.3 mm (7.10 inches)		
Dimensions (without stand)			
Height	361.6 mm (14.24 inches)		
Width	556.0 mm (21.89 inches)		
Depth	64.9 mm (2.56 inches)		
Stand dimensions			
Height (extended)	400.7 mm (15.78 inches)		
Height (compressed)	285.7 mm (11.25 inches)		
Width	279.8 mm (11.02 inches)		
Depth	180.3 mm (7.10 inches)		
Weight			
Weight with packaging	16.48 lbs (7.49 kg)		
Weight with stand assembly and cables	13.73 lbs (6.24 kg)		
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	8.73 lbs (3.97 kg)		
Weight of stand assembly	3.87 lbs (1.76 kg)		
Front frame gloss	5.0 gloss unit (max.) (Black Frame) 20.0 gloss unit (max.) (Silver Frame)		

Environmental Characteristics

Model	U2412M
	02412101
Temperature	
Operating	0 °C to 40 °C
Non-operating	Storage: -20 °C to 60 °C (-4 °F to 140 °F) Shipping: -20 °C to 60 °C (-4 °F to 140 °F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	Storage: 5% to 90% (non-condensing) Shipping: 5% to 90% (non-condensing)
Altitude	
Operating	3,048 m (10,000 ft) max
Non-operating	10,668 m (35,000 ft) max
Thermal dissipation	245.66 BTU/hour (maximum)

Power Management Modes

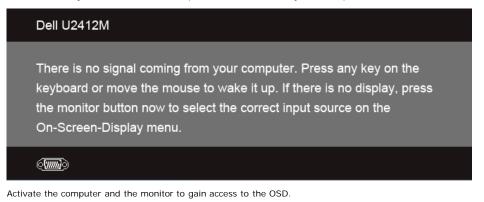
If you have VESA's DPMTM compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as *Power Save Mode**. If the computer detects input from the keyboard, mouse, or other input devices, the monitor automatically resumes functioning. The following table shows the power consumption and signaling of this automatic power saving feature:

02412101		
VESA Modes	Horizontal Sync	Verti

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	Blue	72 W (maximum) ** 29 W (typical)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 0.5 W
Switch off	-	-	-	Off	Less than 0.5 W

. .. .

The OSD will only function in the normal operation mode. When any button is pressed in Active-off mode, one of the following messages will be displayed:



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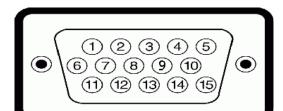
NOTE: This monitor is ENERGY STAR[®]-compliant.

Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

** Maximum power consumption with max luminance, Dell Soundbar, and USB active.

Pin Assignments

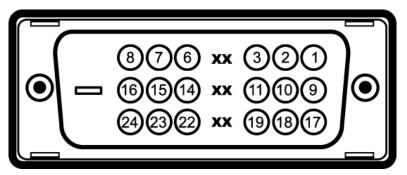
VGA Connector



Pin Number	15-pin Side of the Connected Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-test
6	GND-R
7	GND-G
8	GND-B
9	Computer 5V/3.3V
10	GND-sync
11	GND
12	DDC data
13	H-sync

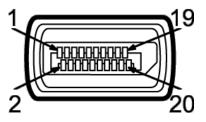
14	V-sync
15	DDC clock

DVI Connector



Pin Number	24-pin Side of the Connected Signal Cable
1	TMDS RX2-
2	TMDS RX2+
3	TMDS Ground
4	Floating
5	Floating
6	DDC Clock
7	DDC Data
8	Floating
9	TMDS RX1-
10	TMDS RX1+
11	TMDS Ground
12	Floating
13	Floating
14	+5V/+3.3V power
15	Self test
16	Hot Plug Detect
17	TMDS RX0-
18	TMDS RX0+
19	TMDS Ground
20	Floating
21	Floating
22	TMDS Ground
23	TMDS Clock+
24	TMDS Clock-

DisplayPort Connector



Pin Number	20-pin Side of the Connected Signal Cable
1	MLO(p)
2	GND
3	MLO(n)
4	ML1(p)

5	GND
6	ML1(n)
7	ML2(p)
8	GND
9	ML2(n)
10	ML3(p)
11	GND
12	ML3(n)
13	GND
14	GND
15	AUX(p)
16	GND
17	AUX(n)
18	HPD
19	DP_PWR Return
20	+3.3V DP_PWR

Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the system can configure itself and optimize the monitor settings. Most monitor installations are automatic; you can select different settings if desired. For more information about changing the monitor settings, see <u>Operating the Monitor</u>.

Universal Serial Bus (USB) Interface

This section gives you information about the USB ports that are available on the left side of your monitor.

Transfer Speed	Data Rate	Power Consumption
High speed	480 Mbps	2.5W (Max, each port)
Full speed	12 Mbps	2.5W (Max, each port)
Low speed	1.5 Mbps	2.5W (Max, each port)

USB Upstream Connector



Pin Number	4-pin Side of the Connector
1	DMU
2	VCC
3	DPU
4	GND

USB Downstream Connector



Pin Number	4-Pin Side of the Signal Cable
1	VCC
2	DMD
3	DPD
4	GND

USB Ports

- 1 upstream back
- 4 downstream 2 on the back; 2 on the left side
- **NOTE:** USB 2.0 functionality requires a USB 2.0-capable computer.

🛿 NOTE: The monitor's USB interface works only when the monitor is on or in power save mode. If you turn off the monitor and then turn it on, the attached peripherals may take a few seconds to resume normal functionality.

LCD Monitor Quality and Pixel Policy

During the LCD Monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state which are hard to see and do not affect the display quality or usability. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: **support.dell.com**.

Maintenance Guidelines

Cleaning Your Monitor

MARNING: Read and follow the <u>safety instructions</u> before cleaning the monitor.

WARNING: Before cleaning the monitor, unplug the monitor power cable from the electrical outlet.

For best practices, follow the instructions in the list below while unpacking, cleaning, or handling your monitor:

- To clean your antistatic screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the antistatic coating. Do It is below a finite set of a monitor, and a brasive cleaners, or compressed air.
 Use a lightly-dampened, warm cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
- If you notice white powder when you unpack your monitor, wipe it off with a cloth.
- Handle your monitor with care as a darker-colored monitor may scratch and show white scuff marks more than a lighter-colored monitor.
- To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.

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Setting Up the Monitor

Dell™ U2412M Monitor User's Guide

- Attaching the Stand
- Connecting the Monitor
- Organizing Your Cables
- Attaching the Soundbar (optional).
- Removing the Stand
- Wall Mounting (Optional)

Attaching the Stand

NOTE: The stand is detached when the monitor is shipped from the factory.

NOTE: This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for set up instructions.



To attach the monitor stand:

- 1. Remove the cover and place the monitor on it.
- 2. Fit the two tabs on the upper part of the stand to the groove on the back of the monitor.
- 3. Press the stand till it snaps into its place.

Connecting Your Monitor

MARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

To connect your monitor to the computer:

 Turn off your computer and disconnect the power cable. Connect the blue (VGA) cable from your monitor to your computer.



NOTE: If your computer supports a white DVI connector, connect the white DVI cable to the monitor and the white DVI connector on your computer.



NOTE: Do not connect the blue VGA, the white DVI, or the black DisplayPort cables to the computer at the same time.

2. Connect the white (digital DVI-D) or the blue (analog VGA) or the black (DisplayPort) display connector cable to the corresponding video port on the back of your computer. Do not use the three cables on the same computer. Use all cables only when they are connected to three different computers with appropriate video systems.

Connecting the white DVI cable



Connecting the blue VGA cable

Connecting the black DisplayPort cable

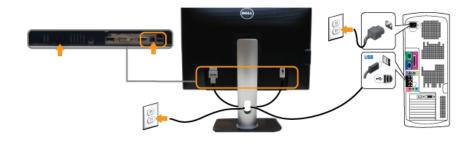


△ CAUTION: The graphics are used for the purpose of illustration only. Appearance of the computer may vary.

Connecting the USB cable

After you have completed connecting the DVI/VGA/DP cable, follow the procedures below to connect the USB cable to the computer and complete your monitor setup:

- 1. Connect the upstream USB port (cable supplied) to an appropriate USB port on your computer. (See bottom view for details.)
- 2. Connect USB peripherals to the downstream USB ports (side or bottom) on the monitor. (See side or bottom view for details.)
- Plug the power cables for your computer and monitor into a nearby outlet. Turn on the monitor and the computer. 3.
- 4.
- If your monitor displays an image, installation is complete. If it does not display an image, see <u>Solving Problems</u>. 5. Use the cable slot on the monitor stand to organize the cables.



Organizing Your Cables



After attaching all necessary cables to your monitor and computer, (See Connecting Your Monitor for cable attachment,) organize all cables as shown above.

Attaching the Soundbar (Optional)



 \bigwedge CAUTION: Do not use with any device other than the Dell Soundbar.

NOTE: The Soundbar power connector (+12 V DC output) is for the optional Dell Soundbar only.

To attach the Soundbar:

- 1. Working from the back of the monitor, attach the Soundbar by aligning the two slots with the two tabs along the bottom of the monitor.
- 2. Slide the Soundbar to the left until it snaps into place.
- 3. Connect the Soundbar with the DC power connector.
- 4. Insert the mini stereo plug from the back of the Soundbar into the computer's audio output jack.

Removing the Stand

NOTE: To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a soft, clean surface.

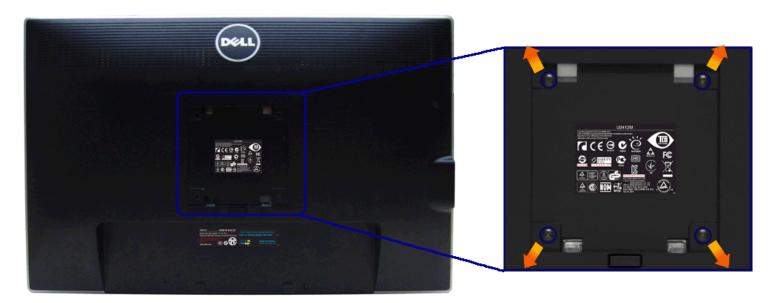
MOTE: This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for set up instructions.



To remove the stand:

- 1. Place the monitor on a flat surface.
- 2. Press and hold the stand release button.
- 3. Lift the stand up and away from the monitor.

Wall Mounting (Optional)



(Screw dimension: M4 x 10 mm).

Refer to the instructions that come with the VESA-compatible wall mounting kit.

- 1. Place the monitor panel on a soft cloth or cushion on a stable, flat table.
- 2. Remove the stand.

- Use a Philips crosshead screwdriver to remove the four screws securing the plastic cover.
 Attach the mounting bracket from the wall mounting kit to the monitor.
 Mount the monitor on the wall by following the instructions that came with the wall mounting kit.

NOTE: For use only with UL Listed Wall Mount Bracket with minimum weight/load bearing capacity of 4.52 kg.

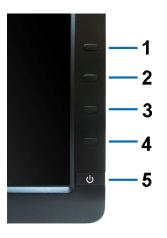
Operating the Monitor

Dell™ U2412M Monitor User's Guide

- Using the Front Panel Controls
- Using the On-Screen Display (OSD) Menu
- PowerNap Software
- Setting the Maximum Resolution
- Using the Dell Soundbar (Optional)
- Using the Tilt, Swivel, and Vertical Extension
- Rotating the monitor
- Adjusting the Rotation Display Settings of Your System

Using the Front Panel

Use the control buttons on the front of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.



The following table describes the front panel buttons:

	Front Panel Button	Description
1	Shortcut key/ Preset Modes	Use this button to choose from a list of preset color modes.
2	Shortcut key / Brightness/Contrast	Use this button to directly access the "Brightness/Contrast" menu.
3	Menu	Use the MENU button to launch the on-screen display (OSD) and select the OSD Menu. See <u>Accessing the Menu System</u> .
4	Exit	Use this button to go back to the main menu or exit the OSD main menu.
5		Use the Power button to turn the monitor on and off. The blue LED indicates the monitor is on and fully functional. An amber LED indicates power save mode.

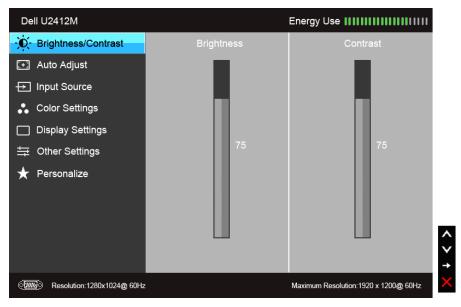
Using the On-Screen Display (OSD) Menu

Accessing the Menu System

NOTE: If you change the settings and then either proceed to another menu or exit the OSD menu, the monitor automatically saves those changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

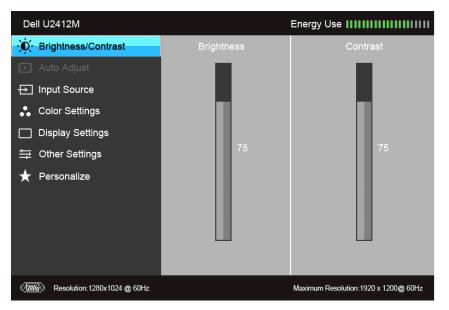
1. Push the button to launch the OSD menu and display the main menu.

Main Menu for analog (VGA) input



or

Main Menu for digital (DVI) input

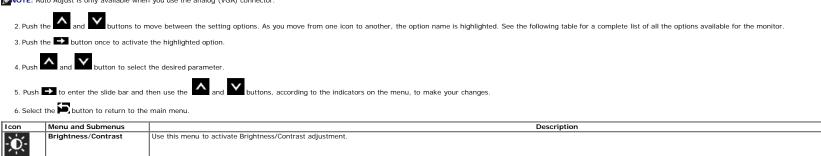


or

Main Menu for display (DP) input

Dell U2412M		Energy Use !!!!!!!!!!!!!!!!!!!!!!!!!!!!!
- D- Brightness/Contrast	Brightness	Contrast
💽 Auto Adjust		
→ Input Source		
Color Settings		
Display Settings		
井 Other Settings	75	75
★ Personalize		
Commo Resolution:1280x1024@ 60Hz		Maximum Resolution:1920 x 1200@ 60Hz

INOTE: Auto Adjust is only available when you use the analog (VGA) connector.



		Dell U2412M Energy Use IIIIIIIIII Image: Brightness/Contrast Brightness Contrast Image: Auto Adjust Contrast Contrast Image: Color Settings T T Display Settings T T Image: Personalize T T
	Brightness	Resolution: 1280x1024@ 60Hz Maximum Resolution: 1920 x 1200@ 60Hz Brightness adjusts the luminance of the backlight. Push the Push the Duttor to increase brightness and push the Duttor to increase brightness and push the buttor to decrease brightness (min 0 - max 100). NOTE: Manual adjustment of Brightness is disabled when Energy Smart or Dynamic Contrast is switched on.
	Contrast	Adjust Brightness first, and then adjust Contrast only if further adjustment is necessary. Push the button to increase contrast and push the button to decrease contrast (min 0 - max 100). The Contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.
	Auto Adjust	Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for use with your particular setup. Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Display Settings. Auto Adjustment in Progress NOTE: In most cases, Auto Adjust produces the best image for your configuration. NOTE: Auto Adjust option is only available when you are using the analog (VGA) connector.
Þ	Input Source	Use the Input Source menu to select between different video signals that may be connected to your monitor.

		Dell U2412M		Energy Use	
		- 🔆- Brightness/Contrast	✓ Auto Select		
		Auto Adjust	VGA		
		→ Input Source	DVI-D		
		Color Settings	-		
			Display Port		
		Display Settings			
		🛧 Personalize			
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		() Resolution:1280x1024@ 60Hz		Maximum Resolution:1920 x 1200@ 60Hz	×
	Auto Select				
	VGA	Push Descent Auto Select, the monit Select VGA input when you are using the a			
	DVI-D	Select DVI-D input when you are using the			
)	DisplayPort	Select DisplayPort input when you are usi	ng the DisplayPort (DP) connector. Push	to select the DisplayPort input sourc	e.
	Color Settings	Use Color Settings to adjust the color set There are different color setting sub-menus			
		Dell U2412M		Energy Use	
		-•••- Brightness/Contrast	Input Color Format	RGB	
		Auto Adjust		PC	
			Gamma		
		→ Input Source	Preset Modes	▶ Standard	
		Color Settings	Reset Color Settings		
		Display Settings			
		🛧 Personalize			
					^
		ි		Maximum Desolution-1920 v 1200@ 60Hz	 ✓ → →
	Land Color Securit	ورسیس) Resolution:1280x1024@ 60Hz	Ind to a computer or a DVD value 100	Maximum Resolution:1920 x 1200@ 60Hz	
	Input Color Format		ted to a computer or a DVD using a VG/		monitor is connected to a DVD by a YPbPr to VGA or YPbPr to DVI cable or if the DVD color output setting is n
	Input Color Format	Choose the RGB option if monitor is connec	ted to a computer or a DVD using a VG		
	Input Color Format	Choose the RGB option if monitor is connec	ted to a computer or a DVD using a VG		
	Input Color Format	Choose the RGB option if monitor is connec	ted to a computer or a DVD using a VG		

	Dell U2412M		Energy Use IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
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	→ Input Source	Preset Modes		
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	Display Settings			
	井 Other Settings			
	🛨 Personalize			
		-		
	والمعالم (Resolution:1280x1024@ 60Hz		Maximum Resolution:1920 x 1200@ 60H	z 5
	Allows you to set the color mode to PC or N	IAC.		
	Dell U2412M		Energy Use	
	· D- Brightness/Contrast	Input Color Format		
	王 Auto Adjust	Gamma	PC	
	→ Input Source	Preset Modes	MAC	
	Color Settings	Reset Color Settings		
	Display Settings			
	井 Other Settings			
	🛨 Personalize			
				\checkmark
	() Resolution:1280x1024@ 60Hz		Maximum Resolution:1920 x 1200@ 60H	
odes	When you select Preset Modes, you can ch	hoose Standard, Multimedia, Mov	ie, Game, Text, Color Temp. or Custom	Color from the list.
	Standard: Loads the monitor's defau Multimedia: Loads color settings ide Movie: Loads color settings ideal for Garme: Loads color settings ideal for Text: Loads brightness and sharpnes	eal for multimedia applications. movies. most gaming applications.	preset mode.	
	when you set the slider at 10000K.			values. The screen appears warmer with a red/yellow tint when you set the slider at 5000K or cooler with
	Custom Color: Allows you to manua	ally adjust the color settings. Press the	ne 🔺 and 🚩 buttons to adjust the th	ree colors (R, G, B) values and create your own preset color mode.

	Dell U2412M		Energy Use IIIIIIIIIIIIIIIIIIII	
	- O- Brightness/Contrast	Input Color Format		
	🖅 Auto Adjust	Gamma		
	→ Input Source	Preset Modes	Standard Standard	
	Color Settings	Reset Color Settings	Mutimedia	
	Display Settings		Movie	
	井 Other Settings		Game	
	🛨 Personalize		Text	
			Color Temp.	
			Custom Color	
	ତ୍ତ୍ତି Resolution:1280x1024@ 60H	2	Maximum Resolution:1920 x 1200@ 60Hz	
Hue	This feature can shift the color of the video im Press to increase the green shade of the Press to increase the purple shade of the	video image.	djust the desired flesh tone color. Use 🛆 or 💟 to adjust the hue from '0' to '100'.	
Saturation	NOTE: Hue adjustment is available only when			_
	This feature can adjust the color saturation of Press to increase the monochrome appear Press to increase the colorful appearance	rance of the video image.	djust the saturation from '0' to '100'.	
Reset Color Settings	NOTE: Saturation adjustment is available only Reset your monitor color settings to the factor		mode.	_
Display Settings	Use the Display Settings to adjust image.			

	Dell U2412M	l	Energy Use IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
	- D: Brightness/Contrast	Aspect Ratio	• Wide 16:10	
	던 Auto Adjust	Horizontal Position	50	
	→ Input Source	Vertical Position	▶ 50	
	🔹 Color Settings	Sharpness	50	
	Display Settings	Pixel Clock	50	
	井 Other Settings	Phase	▶ 50	
	★ Personalize	Dynamic Contrast		
		Reset Display Settings		
	وروستان Resolution:1280x1024@ 60Hz		Maximum Resolution:1920 x 1200@ 60Hz	* * *
pect Ratio	Adjust the image ratio to Wide 16:10, 5:4	1 or 4:3.		
rizontal Position	Use or to adjust the image lef	t or right. Minimum is '0' (-). Maximum is	1001 (.)	
rtical Position		o or down. Minimum is '0' (-). Maximum is		
arpness		osition adjustments are only available for "	· · · · · · · · · · · · · · · · · · ·	
		arper or softer. Use 🖍 or 🚩 to adjust		
tel Clock	Use or to adjust for best imag	low you to adjust your monitor to your pre je quality.	ference.	
ase		ing the Phase adjustment, use the Pixel Clo	ock (coarse) adjustment and then use Pha	ıse (fine), again.
namic Contrast	NOTE: Pixel Clock and Phase adjustment Dynamic Contrast adjusts the contrast rat			
	Push the Dynam	ic Contrast "On" or "Off" .		
set Display Settings	Note: Dynamic Contrast provides high Select this option to restore default displa		ie preset mode.	
her Settings		f the OSD, such as, the languages of the O	SD, the amount of time the menu remain	s on screen, and so on.

	Dell U2412M	Ę	nergy Use IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
	- D: Brightness/Contrast	Language	▶ English		
	💽 Auto Adjust	Menu Transparency	▶ 20		
	→ Input Source	Menu Timer	▶ 20 s		
	🛟 Color Settings	Menu Lock	Unlock		
	Display Settings	Menu Rotation			
		Energy Smart	▶ Off		
	🛨 Personalize	Power Save Audio	▶ On		
		DDC/CI	▶ Enable		
		LCD Conditioning	Disable		
		Factory Reset	Reset All Settings		
	() Resolution:1280x1024 @ 60Hz	N	Maximum Resolution:1920 x 1200@ 60Hz		
anguage	Language options set the OSD display to one	e of the eight languages (English, Espanol	, Francais, Deutsch, Brazilian Portuques	Russian, Simplified Chinese or Japanese).	
Nenu Transparency			· · · · · ·		
	Select this option to change the menu transp		outtons (Minimum: 0 ~ Maximum: 100).		
lenu Timer	OSD Hold Time: sets the length of time the (-	you pressed a button.		
Menu Lock	Use controls user access to adjustments. When I	econd increments, from 5 to 60 seconds. Lock is selected, no user adjustments are	allowed. All buttons are locked.		
	NOTE: Lock function – Either soft lock (through the Unlock function– Only hard unlock (press a	OSD menu) or hard lock (press and hold ind hold the button above the power butto	the button above the power button for in for 10 seconds)	10 seconds)	
Menu Rotation	Rotates the OSD by 90 degrees counter-cloc	kwise. You can adjust the menu according	g to your <u>Display Rotation</u> .		
nergy Smart	To turn on or off dynamic dimming. The dynamic dimming feature automatically	reduces the screen's brightness level wher	n the displayed image contains a high p	oportion of bright areas.	
Power Save Audio	To turn on or off Audio Power during Power	Save mode.			
DDC/CI	DDC/CI (Display Data Channel/Command In Enable this feature for best user experience	terface) allows your monitor parameters (k and optimum performance of your monito	brightness, color balance, and etc.) to b r.	e adjustable via the software on your computer. You can disable this feature by selecting "Disable".	

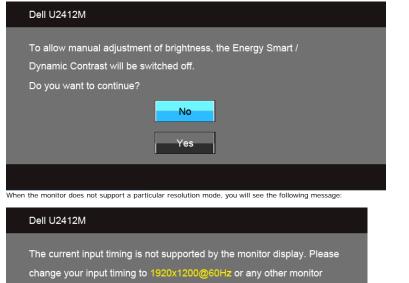
1		Dell U2412M		Energy Use
		- Den 024 12M	Language	
		Auto Adjust	Menu Transparency	
		→ Input Source	Menu Timer	
		Color Settings	Menu Lock	
		Display Settings	Menu Rotation	
		· · · · · · · · · · · · · · · · · · ·	Energy Smart	
		★ Personalize	Power Save Audio	
			DDC/CI	
			LCD Conditioning	Disable
			Factory Reset	
		والمعالم (شاریک) Resolution:1280x1024 @ 60Hz		Maximum Resolution:1920 x 1200@ 60Hz
		2 mesonation. 1200x1024 @ 00112		Maxindin resolution. 1920 x 1200@ 00112
	LCD Conditioning	Helps reduce minor cases of image retention.	Depending on the degree of image	retention, the program may take some time
		Dell U2412M		Energy Use
		- D- Brightness/Contrast	Language	
		Auto Adjust	Menu Transparency	
		→ Input Source	Menu Timer	
		Color Settings	Menu Lock	
		Display Settings	Menu Rotation	
			Energy Smart	
		+ Personalize	Power Save Audio	
			DDC/CI	
			LCD Conditioning	Enable
			Factory Reset	Jisable
		والمعالم (Resolution:1280x1024 @ 60Hz		Maximum Resolution:1920 x 1200@ 60Hz
	Factory Day 1			
	Factory Reset	Reset all OSD settings to the factory preset v		
k	Personalize	Users can choose a feature from "Preset Mod	es, Brightness/Contrast, Auto Ad	Just, Input Source, Aspect Ratio of Mer

Dell U2412M		Energy Use
- O- Brightness/Contrast	Shortcut Key 1	✓ Preset Modes
💽 Auto Adjust	Shortcut Key 2	Brightness/Contrast
→ Input Source	Reset Personailzation	Auto Adjust
Color Settings		Input Source
Display Settings		Aspect Ratio
		Menu Rotation
+ Personalize		
(1280x1024 @ 60Hz		Maximum Resolution:1920 x 1200@ 60Hz

NOTE: This monitor has a built-in feature to automatically calibrate the brightness to compensate for LED aging.

OSD Warning Messages

When the Energy Smart or Dynamic Contrast feature is enabled (in these preset modes: Game or Movie), the manual brightness adjustment is disabled.



listed timing as per the monitor specifications.

(**)))**)

This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See <u>Monitor Specifications</u> for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1920 x 1200.

You will see the following message before the DDC/CI function is disabled:



See Solving Problems for more information.

No VGA Cable

keyboard or move the mouse to wake it up. If there is no display, press the monitor button now to select the correct input source on the On-Screen-Display menu. (**)))** If either VGA or DVI-D or DP input is selected and both VGA and DVI-D cables are not connected, a floating dialog box as shown below appears: Dell U2412M Dell U2412M

or

No DVI-D Cable

The display will go into Power Save Mode in 5 minutes

There is no signal coming from your computer. Press any key on the

Activate the computer and wake up the monitor to gain access to the OSD.	
If you press any button other than the power button, one of the following messages will appear depending o	n the selected input:
VGA/DVI -D/DP input	
Dell U2412M	

The display will go into Power Save Mode in 5 minutes

Vhen	monitor enters Power Save mode, the following message appears:
	Dell U2412M
	Entering Power Save Mode.

Dell U2412M

La fonction de réglage des paramètres d'affichage via des applications PC sera désactivée.
Souhaitez-vous désactiver la fonction DDC/Cl ?
Non
Oui

Dell U2412M



or

The display will go into Power Save Mode in 5 minutes

The PowerNap software comes in the CD that shipped with the monitor you have just purchased.

This software provides Power Saving mode for your monitor. The Power Saving mode lets users set the monitor to "Screen Dim" or "Sleep" when your PC enters the screen saver mode.

1. Screen Dim - the monitor dims to a minimum brightness level when the PC is in the screen saver mode.

2. Sleep - the monitor enters the sleep mode when the PC is in the screen saver mode.



The PowerNap software provides an option to check if there is a new update. Please check periodically if there is a new update for your software.



NOTES: After installation, one desktop shortcut and one shortcut under "Start" for PowerNap are created. OS support: Windows XP (32 and 64 bits), Vista (32 and 64 bits), Windows 7 (32 and 64 bits) Video interface support: VGA and DVI only.

The latest version of the PowerNap Software can be downloaded from Dell's website.

Steps to download the software:

- Go to http://www.support.dell.com
- Select "Monitor Drivers" under "Drivers and downloads" tab
- 3. Select your Monitor Model PowerNap Application
- 4. Download and install the application

Enhanced Menu Rotation Software

Enhanced Menu Rotation is embedded within the PowerNap software, allowing you to pivot the monitor screen from the OSD menu. The selection of either "Landscape" or "Portrait" will trigger the monitor screen accordingly.

The following picture shows a screen shot of Enhanced Menu Rotation (Triggering the Enhanced Menu Rotation function through the OSD menu):

Dell U2412M		Energy Use
- D- Brightness/Contrast	Language	English
💽 Auto Adjust	Menu Transparency	> 20
→ Input Source	Menu Timer	▶ 20 s
Color Settings	Menu Lock	Unlock
Display Settings	Menu Rotation	
	Energy Smart	▶ Off
🗙 Personalize	Power Save Audio	
	DDC/CI	Enable
	LCD Conditioning	Disable
	Factory Reset	Reset All Settings
്യുള്ളം Resolution:1280x1024 @ 60Hz	7	Maximum Resolution: 1920 x 1200@ 60Hz

Maximum Resolution:1920 x 1200@ 60Hz

NOTES: OS support: Windows XP (32 and 64 bits), Vista (32 and 64 bits), Windows 7 (32 and 64 bits) Video interface support: VGA and DVI only.

If you do not see the screen rotation, you may need to update your graphics driver. Depending on your computer, complete the following procedures:

· If you have a Dell desktop or portable computer:

· Go to support.dell.com, enter your service tag, and download the latest driver for your graphics card.

- If you are using a non-Dell computer (portable or desktop):
 - Go to the support site for your computer and download the latest graphic drivers.
 - Go to your graphics card website and download the latest graphic drivers.

Setting the Maximum Resolution

To set the maximum resolution for the monitor:

Windows XP

- 1. Right-click on the desktop and select Properties.
- Select the Settings tab.
 Set the screen resolution to 1920 x 1200.
- 4. Click OK.

Windows Vista® or Windows® 7:

- 1. Right-click on the desktop and select Personalization

 Click Change Display Settings.
 Move the slider-bar to the right by pressing and holding the left mouse button and adjust the screen resolution to 1920 x 1200. 4. Click OK.

If you do not see 1920 x 1200 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures:

If you have a Dell desktop or portable computer:

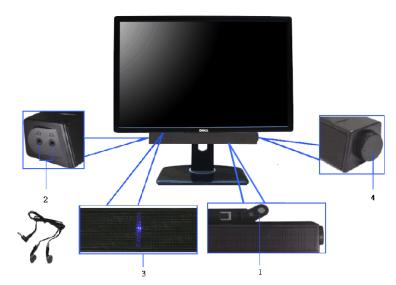
· Go to support.dell.com, enter your service tag, and download the latest driver for your graphics card.

If you are using a non-Dell computer (portable or desktop)

- · Go to the support site for your computer and download the latest graphic drivers.
- · Go to your graphics card website and download the latest graphic drivers.

Using the Dell Soundbar (Optional)

The Dell Soundbar is a stereo two channel system adaptable to mount on Dell Flat Panel Displays. The Soundbar has a rotary volume and on/off control to adjust the overall system level, a blue LED for power indication, and two audio headset jacks.



- 1. Attach mechanism
- 2. Headphone jacks
- 3. Power indicator
- 4. Power/Volume control

Using the Tilt, Swivel, and Vertical Extension

Tilt, Swivel

With the stand attached to the monitor, you can tilt and swivel the monitor for the most comfortable viewing angle.



NOTE: The stand is detached when the monitor is shipped from the factory.

Vertical Extension

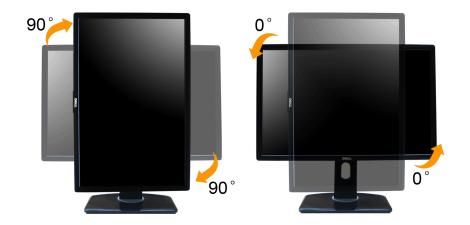
NOTE: The stand extends vertically up to 115 mm. The figure below illustrates how to extend the stand vertically.



Rotating the Monitor

Before you rotate the monitor, your monitor should be fully vertically extended (Vertical Extension) and fully tilted (Tilt) up to avoid hitting the bottom edge of the monitor.





NOTE: To use the Display Rotation function (Landscape versus Portrait view) with your Dell computer, you require an updated graphics driver that is not included with this monitor. To download the graphics driver, go to **support.dell.com** and see the **Download** section for **Video Drivers** for latest driver updates.

💋 NOTE: When in Portrait View Mode, you may experience performance degradation in graphic-intensive applications (3D Gaming and etc.)

Adjusting the Rotation Display Settings of Your System

After you have rotated your monitor, you need to complete the procedure below to adjust the Rotation Display Settings of your System.

NOTE: If you are using the monitor with a non-Dell computer, you need to go the graphics driver website or your computer manufacturer website for information on rotating the 'contents' on your display.

To adjust the Rotation Display Settings:

- Right-click on the desktop and click **Properties**.
 Select the **Settings** tab and click **Advanced**.
 If you have an ATI graphics card, select the **Rotation** tab and set the preferred rotation.
- If you have an nVidia graphics card, click the nVidia tab, in the left-hand column select NVRotate, and then select the preferred rotation. If you have an Intel® graphics card, select the Intel graphics tab, click Graphic Properties, select the Rotation tab, and then set the preferred rotation.

MOTE: If you do not see the rotation option or it is not working correctly, go to support.dell.com and download the latest driver for your graphics card.

Troubleshooting

Dell™ U2412M Monitor User's Guide

- Self-Test
- Built-in Diagnostics
- Common Problems
- Product Specific Problems
- Universal Serial Bus Specific Problems
- Dell Soundbar Problems
- WARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

Self-Test

Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

1. Turn off both your computer and the monitor

- 2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove all Digital (white connector) and the Analog (blue connector) cables from the back of computer.
- 3. Turn on the monitor.

The floating dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains green. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.

Dell U2412M	Dell U2412M	Dell U2412M
No VGA Cable The display will go into Power Save Mode in 5 minutes	No DVI-D Cable The display will go into Power Save Mode in 5 minutes	or The display will go into Power Save Mode in 5 minutes

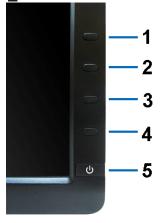
1. This box also appears during normal system operation if the video cable becomes disconnected or damaged. 2. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.

Built-in Diagnostics

Your monitor has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your monitor, or with your computer and video card.

NOTE: You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in self-test mode.



To run the built-in diagnostics:

- 1. Ensure that the screen is clean (no dust particles on the surface of the screen).
- 2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
- 3. Press and hold Button 1 and Button 4 on the front panel simultaneously for 2 seconds. A gray screen appears.
- 4. Carefully inspect the screen for abnormalities.
- 5. Press Button 4 on the front panel again. The color of the screen changes to red.
- 6. Inspect the display for any abnormalities.

7. Repeat steps 5 and 6 to inspect the display in green, blue, black and white screens.

The test is complete when the white screen appears. To exit, press ${\color{black}{Button}}~{\color{black}{4}}$ again.

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

Common Problems

The following table contains general information about common monitor problems you might encounter and the possible solutions:

Common Symptoms	What You Experience	Possible Solutions
No Video/Power LED off	No picture	 Ensure that the video cable connecting the monitor and the computer is properly connected and secure. Verify that the power outlet is functioning properly using any other electrical equipment. Ensure that the power button is depressed fully. Ensure that the correct input source is selected via the <u>Input Source Select</u> button.
No Video/Power LED on	No picture or no brightness	Increase brightness & contrast controls via OSD. Perform monitor self-test feature check. Check for bent or broken pins in the video cable connector. Run the built-in diagnostics. Ensure that the correct input source is selected via the Input Source Select button.
Poor Focus	Picture is fuzzy, blurry, or ghosting	Perform Auto Adjust via OSD. Adjust the Phase and Pixel Clock controls via OSD. Eliminate video extension cables. Reset the monitor to Factory Settings. Change the video resolution to the correct aspect ratio (16:10).
Shaky/Jittery Video	Wavy picture or fine movement	Perform Auto Adjust via OSD. Adjust the Phase and Pixel Clock controls via OSD. Reset the monitor to Factory Settings. Check environmental factors. Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	 Cycle power on-off. Pixel that is permanently off is a natural defect that can occur in LCD technology. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: support.dell.com.
Stuck-on Pixels	LCD screen has bright spots	 Cycle power on-off. Pixel that is permanently off is a natural defect that can occur in LCD technology. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: support.dell.com.
Brightness Problems	Picture too dim or too bright	Reset the monitor to Factory Settings. Auto Adjust via OSD. Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	Reset the monitor to Factory Settings. Auto Adjust via OSD. Adjust horizontal & vertical controls via OSD. NOTE: When using DVI-D input, the positioning adjustments are not available.
Horizontal/Vertical Lines	Screen has one or more lines	Reset the monitor to Factory Settings. Perform Auto Adjust via OSD. Adjust Phase and Pixel Clock controls via OSD. Perform monitor self-test feature check and determine if these lines are also in self-test mode. Check for bent or broken pins in the video cable connector. Run the built-in diagnostics.
		NOTE: When using DVI-D input, the Pixel Clock and Phase adjustments are not available.
Synchronization Problems	Screen is scrambled or appears torn	Reset the monitor to Factory Settings. Perform Auto Adjust via OSD. Adjust Phase and Pixel Clock controls via OSD. Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. Check for bent or broken pins in the video cable connector. Restart the computer in the safe mode.
Safety Related Issues	Visible signs of smoke or sparks	Do not perform any troubleshooting steps. Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. Reset the monitor to Factory Settings. Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing Color	Picture missing color	 Perform monitor self-test feature check. Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. Check for bent or broken pins in the video cable connector.
Wrong Color	Picture color not good	Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application. Try different Color Preset Settings in Color Settings OSD. Adjust R/C/B value in Color Settings OSD if the Color Management is turned off. Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD. Run the built-in diagnostics.
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears or the screen	Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see <u>Power Management Modes</u>). Alternatively, use a dynamically changing screensaver.

Product Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
Screen image is too small	Image is centered on screen, but does not fill entire	Check the Scaling Ratio setting in Image Setting OSD
	viewing area	Reset the monitor to Factory Settings.
Cannot adjust the monitor with the buttons on the front	OSD does not appear on the screen	 Turn off the monitor, unplug the power cord, plug it back, and then turn on the monitor.
panel		• Check whether the OSD menu is locked. If yes, press and hold the button above the Power button for 10 seconds to unlock (for more information, see Menu Lock).
No input signal when user controls are pressed	No picture, the LED light is blue	Check the signal source. Ensure the computer is not in the power saving mode by moving the mouse or pressing any key on the keyboard.

		Check whether the signal cable is plugged in properly. Re-plug the signal cable if necessary. Reset the computer or video player.
The picture does not fill the entire screen.	The picture cannot fill the height or width of the screen	Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. Run the built-in diagnostics.
NOTE: When choosing DVI-D mode, the Auto Adjust function will not be available.		

Universal Serial Bus (USB) Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
USB interface is not working	USB peripherals are not working	 Check that your monitor is turned ON. Reconnect the upstream cable to your computer. Reconnect the USB peripherals (downstream connector). Switch off and then turn on the monitor again. Reboot the computer. Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.
High Speed USB 2.0 interface is slow.	High Speed USB 2.0 peripherals working slowly or not working at all	 Check that your computer is USB 2.0-capable. Some computers have both USB 2.0 and USB 1.1 ports. Ensure that the correct USB port is used. Reconnect the upstream cable to your computer. Reconnect the USB peripherals (downstream connector). Reboot the computer.

Dell[™] Soundbar Problems

Common Symptoms	What You Experience	Possible Solutions
No Sound	No power to Soundbar - the power indicator is off	Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (Blue LED) on the front of the Soundbar is illuminated. Confirm that the power cable from the Soundbar is plugged into the adapter.
No Sound	Soundbar has power - power indicator is on	 Plug the audio line-in cable into the computer's audio out jack. Set all Windows volume controls to their maximum. Play some audio content on the computer (i.e. audio CD, or MP3). Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting. Clean and reseat the audio line-in plug. Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Computer's sound card is used as the audio source	Clear any obstructions between the Soundbar and the user. Confirm that the audio line-in plug is completely inserted into the jack of the sound card. Set all Windows volume controls to their midpoints. Decrease the volume of the audio application. Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. Clean and reseat the audio line-in plug. Troubleshoot the computer's sound card. Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Other audio source is used	Clear any obstructions between the Soundbar and the user. Confirm that the audio line-in plug is completely inserted into the jack of the audio source. Decrease the volume of the audio source. Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. Clean and reseat the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	Clear any obstructions between the Soundbar and the user. Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source. Set all Windows audio balance controls (L-R) to their midpoints. Clean and reseat the audio line-in plug. Troubleshoot the computer's sound card. Test the Soundbar using another audio source (i.e. portable CD player).
Low Volume	Volume is too low	Clear any obstructions between the Soundbar and the user. Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting. Set all Windows volume controls to their maximum. Increase the volume of the audio application. Test the Soundbar using another audio source (i.e. portable CD player).

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Appendix

Dell[™] U2412M Monitor User's Guide

- Safety Instructions
- FCC Notice (U.S. Only) and Other Regulatory Information.
- Contacting Dell

MARNING: Safety Instructions

MARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

For information on safety instructions, see the Product Information Guide.

FCC Notices (U.S. Only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at www.dell.com\regulatory_compliance.

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

- 1. Visit support.dell.com.
- 2. Verify your country or region in the Choose A Country/Region drop-down menu at the bottom of the page.
- 3. Click Contact Us on the left side of the page.
- 4. Select the appropriate service or support link based on your need.
- 5. Choose the method of contacting Dell that is convenient for you.

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